

RESEARCH INTERESTS

I am particularly interested in Computer Vision, from 3D Reconstruction, to Image-based Rendering and Deep Learning. I also have an interest in Computer Graphics and Virtual Reality. The current focus of my research is on exploiting strong priors for 3D reconstruction in challenging settings. Previously I have worked on assisted drawing vectorization as well as on automating stop-motion animation effects.

PUBLICATIONS

- **Unsupervised Monocular Depth Estimation with Left-Right Consistency**
Clément Godard, Oisín Mac Aodha and Gabriel J. Brostow. **arXiv preprint 2016**
<http://visual.cs.ucl.ac.uk/pubs/monoDepth/>
 - **Multi-view Reconstruction of Highly Specular Surfaces in Uncontrolled Environments**
Clément Godard, Peter Hedman, Wenbin Li and Gabriel J. Brostow. **3DV 2015 - Oral**
<http://visual.cs.ucl.ac.uk/pubs/shapefromreflections/>
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EDUCATION

- 2012 – present **PhD - UCL** (London, United Kingdom) – *University College London*
EngD Virtual Environments, Imaging and Visualisation. Supervised by Gabriel J. Brostow.
I am currently working on exploiting strong priors for 3D reconstruction in challenging settings.
- 2011 – 2012 **MSc - UCL** (London, United Kingdom) – *University College London*
MSc in Computer Graphics, Vision and Imaging - Awarded with Distinction
Thesis: Automation of Stop-motion Animation Effects.
- 2009 – 2011 **MEng - Supélec** (Metz, France) – *Ecole Supérieure d'Electricité*
Student in a leading Engineering School in the fields of electrical energy and information sciences
- 2006 – 2009 **Lycée Pothier** (Orléans, France) – *Classe préparatoire aux Grandes Ecoles*
Core subjects : Physics, Mathematics and Engineering Sciences
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SKILLS

- Languages C/C++, Python, CUDA, GLSL and Matlab
- Technologies OpenCV, OpenGL, WebGL, Eigen, Ceres Solver, Numpy, Torch and TensorFlow
- Pet Projects Path Tracer in C++, PatchMatch Stereo in CUDA
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WORK EXPERIENCE

- Summer 2016 **Google** – Software Engineering Intern
VR/Jump team in Seattle
- Years 2012-2015 **UCL** – Teaching assistant
Machine Vision | 2012/2013/2014/2015
Computational Photography and Capture | 2012/2013/2014/2015
- Summer 2011 **ArcelorMittal** – Engineering Research Intern
Developed a method, now used in production, to detect and measure defects on steel coils using image processing.
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REFERENCES

- **Gabriel J. Brostow** - PhD and MSc advisor
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- **David Gallup** - Project supervisor at Google
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